	Application No.	Applicant(s)
	10/719,928	AL-ALI, AMMAR
Notice of Allowability	Examiner	Art Unit
	Demetrius R. Pretlow	2863
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this or other appropriate communical IGHTS. This application is subjection.	application. If not included tion will be mailed in due course. THIS
1. This communication is responsive to <u>June 7, 2005</u> .		
2. The allowed claim(s) is/are 2-13,21-23 and 25-28.		
3. \boxtimes The drawings filed on <u>21 November 2003</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	·
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the 	son's Patent Drawing Review (Pi s Amendment / Comment or in th	e Office action of
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summa Paper No./Mail 98), 7. Examiner's Ame	Date

DETAILED ACTION

Allowable Subject Matter

Claims 2-13, 21-23, 25-28 are allowed.

The primary reason for the allowance of claims 2-5 is the inclusion of the limitations of a wavelength controller adapted to said upgrade so as to drive said sensor wherein said upgrade comprises a sampling software providing a drive waveform for said sensor and signal recessing software adapted to demodulate a multiplexed signal from said sensor. It is these limitations found in each of the claims as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claim 6 is the inclusion of the limitations of an a wavelength controller adapted to said upgrade so as to drive said sensor wherein said wavelength controller is located in an adapter cable, and said adapter cable providing an interface between the sensor port of said monitor and said sensor. It is these limitations found in each of the claims, as \ they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 7 and 8 is the inclusion of the limitations of a wavelength controller adapted to said upgrade so as to drive

Application/Control Number: 10/719,928

Art Unit: 2863

said sensor, wherein said wavelength controller is integrated into said
sensor. It is these limitations found in each of the claims, as they are claimed in
the combination, that has not been found, taught or suggested by the prior art
of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 9-13 is the inclusion of the limitations of an a wavelength controller adapted to said upgrade so as to drive said sensor wherein said wavelength controller comprises; a sensor control configured to route a drive signal to a selected one of a plurality of sensor emitters; and a sync detector adapted to decode a sync interval on said drive signal so as to synchronize the operations 'of said software upgrade and said wavelength controller. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 21 –23 is the inclusion of the method step of communicating a sensor signal from said sensor to monitor wherein synchronizing step comprises the substeps of: inputting said drive signal to a wave length controller; and decoding a header interval of said drive signal so as to detect a sync event. It is these steps found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 25-28 is the inclusion of the limitations of a multiple wavelength sensor means for illuminating a tissue

Art Unit: 2863

site with at least three wavelengths and detecting a corresponding tissue site response; of an a software upgrade means for enabling a pulse oximetry monitor to drive said sensor and process a corresponding sensor signal; and a wavelength controller means for interfacing between said software upgrade means and said multiple wavelength sensor means. It is these limitations found in each of the claims, as they are claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Demetrius R. Pretlow whose telephone number is (571) 272-2278. The examiner can normally be reached on Mon.-Fri. 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dente Pretto 8/17/05

Demetrius R. Pretlow

Patent Examiner

MICHAEL NGHIEM
REIMARY EXAMINER